Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:ssspta1644pnh
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Sep 29	The Philippines Inventory of Chemicals and Chemical Substances (PICCS) has been added to CHEMLIST
NEWS 3	Oct 27	New Extraction Code PAX now available in Derwent Files
NEWS 4	Oct 27	SET ABBREVIATIONS and SET PLURALS extended in Derwent World Patents Index files
NEWS 5	Oct 27	Patent Assignee Code Dictionary now available in Derwent Patent Files
NEWS 6	Oct 27	Plasdoc Key Serials Dictionary and Echoing added to Derwent Subscriber Files WPIDS and WPIX
NEWS 7	Nov 29	Derwent announces further increase in updates for DWPI
NEWS 8	Dec 5	French Multi-Disciplinary Database PASCAL Now on STN
NEWS 9	Dec 5	Trademarks on STN - New DEMAS and EUMAS Files
NEWS 10	Dec 15	2001 STN Pricing
NEWS 11	Dec 17	Merged CEABA-VTB for chemical engineering and biotechnology
NEWS 12	Dec 17	Corrosion Abstracts on STN
NEWS 13	Dec 17	SYNTHLINE from Prous Science now available on STN
NEWS 14	Dec 17	The CA Lexicon available in the CAPLUS and CA files
NEWS 15	Jan 05	AIDSLINE is being removed from STN
NEWS 16	Jan 29	Webcast on CA LEXICON

NEWS EXPRESS	FREE UPGRADE 5.0e FOR STN EXPRESS 5.0 WITH DISCOVER! (WINDOWS) NOW AVAILABLE
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 13:25:14 ON 06 FEB 2001

=> file medline embase scisearch biosis caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	0.30	0.30

FILE 'MEDLINE' ENTERED AT 13:26:24 ON 06 FEB 2001

FILE 'EMBASE' ENTERED AT 13:26:24 ON 06 FEB 2001

FILE 'SCISEARCH' ENTERED AT 13:26:24 ON 06 FEB 2001

FILE 'BIOSIS' ENTERED AT 13:26:24 ON 06 FEB 2001

FILE 'CAPLUS' ENTERED AT 13:26:24 ON 06 FEB 2001

=> s fagales

L1 143 FAGALES

=> s recombinant

L2 622962 RECOMBINANT

=> s l2 and fagales

L3 46 L2 AND FAGALES

=> s l3 and substitution

L4 0 L3 AND SUBSTITUTION

=> s l3 and amino acid substitution

L5 0 L3 AND AMINO ACID SUBSTITUTION

=> s recombinant allergen

L6 1058 RECOMBINANT ALLERGEN

=> s l6 and V bet1

L7 0 L6 AND V BET1

=> s l6 and Bet v1

L8 6 L6 AND BET V1

=> s l8 and amino acid substitution

L9 0 L8 AND AMINO ACID SUBSTITUTION

=> d l8 all 1-6

L8 ANSWER 1 OF 6 BIOSIS COPYRIGHT 2001 BIOSIS
AN 1999:330765 BIOSIS
DN PREV199900330765
TI How far can we simplify in vitro diagnostics for Fagales tree pollen allergy? A study with three whole pollen extracts and purified natural
and

recombinant allergens.

AU van Ree, R. (1); van Leeuwen, W. A.; Akkerdaas, J. H.; Aalberse, R. C.

CS (1) Department of Allergy, C.L.B., Plesmanlaan 125, NL-1066 CX, Amsterdam Netherlands

SO Clinical and Experimental Allergy, (June, 1999) Vol. 29, No. 6, pp. 848-855.
ISSN: 0954-7894.

DT Article

LA English

SL English

AB Background Current diagnostic tests for Fagales tree pollen allergy are often composed of mixtures of pollen of birch, alder and hazel. Their complex composition hampers accurate standardization. Objective The aim of this study was to investigate whether mixtures of tree pollen extracts can be replaced by a single pollen species, and whether a single pollen species can be replaced by a limited number of purified natural or recombinant major allergens. Methods Sera (n = 1725) were selected on ground of a general suspicion for inhalant allergy, and tested in a RAST for birch, alder and hazel pollen. Sera with > 0.5 RU/mL for any of the three species were tested in a RAST for natural Bet v 1 and Bet v 2 as well as for recombinant versions of both allergens. Results Specific IgE antibodies (> 0.3 RU/mL) against birch, alder and hazel were found in 242, 298 and 292 sera, respectively. All sera with a positive RAST for alder and/or hazel and a negative RAST for birch were low-responder sera on alder and hazel, only five sera having a RAST value > 1.0 (all < 2.0). For all sera with a RAST > 0.5 RU/mL (n = 250), the mean of individual ratio's alder/birch and hazel/birch was 1.02 and 0.54, respectively. Of 223 of these sera, 63.2% had specific IgE against natural Bet v 1 and 63.7% against natural Bet v 2. When responses to both allergens were combined 93.7% were positive. The mean ratios Bet v 1 + 2/extract were 1.00, 1.04 and 2.11 in case of birch, alder and hazel, respectively. For 211 sera the same analysis was performed with recombinant Bet v 1 and Bet v 2. Only six sera with Bet v 1-specific IgE (all < 0.5 RU/mL) were negative (< 0.3 RU/mL) on recombinant Bet v 1. For Bet v 2, 77/132 sera with specific IgE to the natural allergen did not react to the recombinant version. Twelve false-negatives had RAST values > 1.0 RU/mL. The mean of the individual recombinant/natural ratios was 0.98 for Bet v 1 and 0.38 for Bet v 2 (P < 0.001). The mean ratio rBet v 1 + 2/birch was 0.75 with 17.5% false-negatives on the combination of **recombinant allergens**. Conclusion Reliable in vitro diagnosis is possible with a single tree pollen extract (birch or alder). The same is true for purified natural Bet v 1 and Bet v 2. A combination of recombinant molecules is slightly less efficient.

CC Allergy *35500
Pathology, General and Miscellaneous - Diagnostic *12504
Plant Physiology, Biochemistry and Biophysics - Reproduction *51512
Respiratory System - General; Methods *16001

BC Hominidae 86215

IT Major Concepts
Allergy (Clinical Immunology, Human Medicine, Medical Sciences); Pulmonary Medicine (Human Medicine, Medical Sciences)

IT Diseases
Feagles tree pollen allergy: immune system disease, respiratory system disease

IT Chemicals & Biochemicals
Bet v1: allergen; Bet v2: allergen

IT Miscellaneous Descriptors
diagnosis
ORGN Super Taxa
Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia
ORGN Organism Name
human (Hominidae)
ORGN Organism Superterms
Animals; Chordates; Humans; Mammals; Primates; Vertebrates

L8 ANSWER 2 OF 6 BIOSIS COPYRIGHT 2001 BIOSIS
AN 1999:330764 BIOSIS
DN PREV199900330764
TI Molecular characterization of Dau c 1, the Bet v 1 homologous protein from
carrot and its cross-reactivity with Bet v 1 and Api g 1.
AU Hoffmann-Sommergruber, K. (1); O'Riordain, G.; Ahorn, H.; Ebner, C.; Da Camara Machado, M. Laimer; Puehringer, H.; Scheiner, O.; Breiteneder, H.
CS (1) Department of General and Experimental Pathology, AKH-EBO 3Q, Waehringer Guertel 18-20, A-1090, Vienna Austria
SO Clinical and Experimental Allergy, (June, 1999) Vol. 29, No. 6, pp. 840-847.
ISSN: 0954-7894.
DT Article
LA English
SL English
AB Background Up to 70% of patients with birch pollen allergy exhibit the so-called oral allergy syndrome, an IgE-mediated food allergy. The most frequent and therefore best characterized pollen-fruit syndrome is apple allergy in patients suffering from tree pollen-induced pollinosis. The occurrence of adverse reactions to proteins present in vegetables such as celery and carrots in patients suffering from pollen allergy has also been
reported. cDNAs for Bet v 1 homologous proteins have been cloned from celery, apple and cherry. Objective The aim of the study was to identify Bet v 1 homologues from carrot (Daucus carota), to isolate the respective cDNA, to compare the IgE-binding capacity of the natural protein to the **recombinant allergen** and determine the cross-reactivity
to Api g 1 and Bet v 1. Methods Molecular characterization of the carrot allergen was performed using IgE-immunoblotting, cross-inhibition assays, N-terminal sequencing, PCR-based cDNA cloning and expression of the recombinant protein in Escherichia coli. Results A 16-kDa protein from carrot was identified as a major IgE-binding component and designated Dau c 1. Sequencing corresponding cDNAs revealed three extremely similar sequences (Dau c 1.1, 1.2 and 1.3) with an open reading frame of 462 bp coding for 154 amino acid residues. Conclusions Purified recombinant Dau c
1.2 was tested in immunoblots displaying IgE-binding capacity comparable to its natural counterpart. Cross-inhibition assays verified the existence
of common B-cell epitopes present on Dau c 1, Api g 1 as well as on Bet v 1.
CC Allergy *35500
Biochemical Studies - General *10060
Plant Physiology, Biochemistry and Biophysics - Reproduction *51512
Respiratory System - General; Methods *16001
BC Hominidae 86215
IT Major Concepts
Allergy (Clinical Immunology, Human Medicine, Medical Sciences); Respiratory System (Respiration)
IT Diseases
birch pollen allergy: immune system disease, respiratory system disease
IT Chemicals & Biochemicals

birch pollen: allergen; cDNA [complementary DNA]; Dau c1 protein: allergen, carrot **Bet V1** protein

ORGN Super Taxa
Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia

ORGN Organism Name
human (Hominidae): patient

ORGN Organism Superterms
Animals; Chordates; Humans; Mammals; Primates; Vertebrates

L8 ANSWER 3 OF 6 BIOSIS COPYRIGHT 2001 BIOSIS
AN 1997:243013 BIOSIS
DN PREV199799542216
TI Cross-reacting allergens in tree pollen and pollen-related food allergy: Implications for diagnosis of specific IgE.
AU Scheiner, O. (1); Aberer, W.; Ebner, C.; Ferreira, F.; Hoffmann-Sommergruber, K.; Hsieh, L. S.; Kraft, D.; Sowka, S.; Vanek-Krebitz, M.; Breiteneder, H.
CS (1) Dep. Gen. Experimental Pathol., AKH-EBO 3Q, Waehringer Guertel 18-20, A-Vienna Austria
SO International Archives of Allergy and Immunology, (1997) Vol. 113, No. 1-3, pp. 105-108.
ISSN: 1018-2438.
DT Article
LA English
AB Background: A number of **recombinant allergens** are by